**Nov 4 11**

**ECE Advising meeting Dr. Frank**

Time: 12:30pm-12:58pm

**-Concept Generation**

     \*Presentation power point

     \*Paper

**-Range on communications**

     \*Knowledge of mission area/course

**-Printed circuit boards**

\*Use for power system components

     \*Use to build autopilot

     \*use ORCAd or UtliBoard (NATINST) to design (Gerber file)

     \*PADS

     \*Talk to Dante about board

**-Analysis of ECE systems**

     \*Power: Simulink

          ~Batteries and models for loads of system

          ~Discharge curve

          ~Battery consumption over time

          ~Heat and electromagnetic interference

          ~Overall performance

     \*Maybe not feasible to simulate all components of design

     \*Analysis on pre-existing components

     \*Size and weight limits

     \*

**-Real time image processing**

     \*Ground station processing center

     \*FPV systems: use as base model

     \*Real time video stream

     \*Transmitters

**Nov 4 11**

**ME Professors meeting**

Time: 2:30pm-2:41pm

**-Concept Generation Critique**

     \*Presentation-Uploaded on blackboard

          ~Too long, too many slides

          ~Condensing presentation down

          ~Next presentation will be 30 minutes long

     \*Paper-Not graded yet, will be graded next week

          ~Feedback from Dr. Kumar required, review document with him

          ~Decision matrices can be added later

**-Interim Design: No conclusion, just method (ANALYSIS)**

\*Different criteria for each concept to be able to make a decision

     \*Decision matrix: no random numbers, reason for weight of aspects

     \*Engineering analysis on at least two concepts

     \*Mathematical or software analysis

     \*No results of analysis, just method of analysis

     \*Do not overdo equations on slides for presentation

          ~Define all terms

          ~Only present very important equations

     \*No hands in the pockets

     \*Not everyone should stand on the stage

     \*Engineering analysis for ECE software components:

          ~Comparison between existing on the market components

          ~Comparison of specs of each component

          ~Categorize requirements of components

**-Team Evals**

\*Due next friday

     \*Fill out one form for each member of team

     \*Everyone evaluate the ME team members